

FLUID DIODE EXPANSION DEVICE FOR HEAT PUMPS

ABSTRACT OF THE DISCLOSURE

An expansion device for the heat pump applications consists of a flow resistance device that has a different resistance to refrigerant flow depending on the flow direction through this device. The flow resistance device has no moving parts so that it avoids the damage, wear and contamination problems of the moveable piston in the prior art. The flow resistance device is a fixed obstruction about which the fluid must flow when traveling through the expansion device.

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